

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

		•		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,421	03/26/2004	Jin Ki Kim	PAT 980-2	7842
Anne Kinsman			EXAM HUR, JU	
··· -	HANGE PLAZA TREET SUITE 1100 NK1P 1J9		ART UNIT . 2824	PAPER NUMBER
CANADA			NOTIFICATION DATE	DELIVERY MODE
			10/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipinfo@blgcanada.com aarmstrongbaker@blgcanada.com akinsman@blgcanada.com

		Application No.	Applicant(s)		
	•	10/809,421	KIM, JIN KI		
Office Action Summary		Examiner	Art Unit		
		Jung (John) H. Hur	2824		
Doried &	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address		
Period fo	• •				
WHI0 - Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAP ensions of time may be available under the provisions of 37 CFR 1.13 r SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON.	DN. timely filed m the mailing date of this communication. VED (35 U.S.C. 8 133)		
Status					
1)⊠	Responsive to communication(s) filed on 28 Ea	phruon, 2007 and 20 May 2007			
	Responsive to communication(s) filed on <u>28 Fe</u> This action is FINAL . 2b) This				
3)□	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
پ ر-	closed in accordance with the practice under E				
Dienoeit	ion of Claims				
`-^\ <u></u>		•	·		
4)[Claim(s) <u>29-47</u> is/are pending in the application		4		
5,	4a) Of the above claim(s) is/are withdray	vn from consideration.			
	Claim(s) is/are allowed. Claim(s) is/are rejected.				
	Claim(s) is/are rejected. Claim(s) is/are objected to.				
	Claim(s) <u>29-47</u> are subject to restriction and/or	election requirement			
		election requirement.			
	ion Papers				
	The specification is objected to by the Examine				
10)[The drawing(s) filed on is/are: a) acce				
	Applicant may not request that any objection to the	•			
. 441	Replacement drawing sheet(s) including the correcti				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.		
Priority (under 35 U.S.C. § 119	•			
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).		
	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents	s have been received in Applica	ition No		
	3. Copies of the certified copies of the prior	ity documents have been recei	ved in this National Stage		
	application from the International Bureau	ı (PCT Rule 17.2(a)).			
* 5	See the attached detailed Office action for a list of	of the certified copies not receive	ved.		
Attachmen	nt(s)				
	ce of References Cited (PTO-892)	4) Interview Summar			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail I 5) Notice of Informal			
Pape	er No(s)/Mail Date	6) Other:	• •		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination (RCE) under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Further, at the time of filing of the above RCE, a request for a 3-month suspension of action on the present application under 37 CFR 1.103(c) was filed, and was granted. Therefore, Applicant's submission filed on 29 May 2007 has been entered.

Amendment

2. Acknowledgment is made of applicant's Amendment, filed <u>29 May 2007</u>. The changes and remarks disclosed therein have been considered.

Prior to the Amendment, claims 1-4 and 7-28 were pending in the application. With the Amendment, claims 1-4 and 7-28 have been cancelled and claims 29-47 have been added; therefore, claims 29-47 are currently pending in the application.

Election/Restrictions

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 29-42, drawn to a content addressable memory device, classified in class
 365, subclass 49.

Art Unit: 2824

II. Claims 43-47, drawn to a method for searching a content addressable memory array, classified in class 365, subclass 49.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the method for searching a content addressable memory as claimed in Group II can be practiced with another materially different content addressable memory device than that claimed in Group I (for example, a binary DRAM type and a binary SRAM type, or a configurable binary type and a configurable ternary type, as the first and second types, respectively, recited in Group II), or the content addressable memory device as claimed in Group I can be used in a materially different process than that of Group II (for example, coupling a general search data to the first and second types, enabling matchline sense circuits of all rows, and sensing matchlines of all rows).

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different classification;

Application/Control Number: 10/809,421

Art Unit: 2824

(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include

(i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the

inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. This application contains claims directed to the following patentably distinct species:

Species A: Claims 29-38, drawn to Figs. 6 and 7

Species B: Claims 39-42, drawn to Figs. 8 and 9

The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including

Application/Control Number: 10/809,421

Art Unit: 2824

any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung (John) H. Hur whose telephone number is (571) 272-1870. The examiner can normally be reached on M-F 8:00 AM - 4:30 PM.

Art Unit: 2824

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jhh

/Jung (John) H. Hur/ Primary Patent Examiner Art Unit 2824 13 October 2007